

IN THE CLAIMS:

Claims 1-20 (Cancelled)

21. (New): A method for affecting a renal system in a patient, comprising:

locally delivering a fluid agent substantially only into a plurality of renal arteries associated with a plurality of ostia having unique respective positions along an abdominal aorta wall in a patient;

wherein the renal function of each of two kidneys is affected with the locally delivered fluid agent; and

wherein the fluid agent is locally delivered into the plurality of renal arteries substantially simultaneously.

22. (New): The method of claim 21, wherein the local delivery of the fluid agent further comprises:

positioning a fluid agent delivery device within each of the plurality of renal arteries.

23. (New): The method of claim 21, further comprising:

positioning a first conduit within a first renal artery;

positioning a second conduit within a second renal artery; and

delivering the volume of fluid agent simultaneously to each of the first and second renal arteries via the first and second conduits, respectively.

24. (New): The method of claim 22, further comprising:
enhancing renal function of each of two kidneys of the patient with the fluid agent
locally delivered into the two or more renal arteries.

25. (New): The method of claim 21, wherein the local delivery of fluid agent into
the one or more renal arteries comprises:
locally delivering a volume of diuretic fluid agent into the one or more renal
arteries.

26. (New): The method of claim 25, wherein the local delivery of diuretic fluid
agent into the one or more renal arteries comprises:
locally delivering a volume of furosemide into the one or more renal arteries.

27. (New): The method of claim 25, wherein the local delivery of diuretic fluid
agent into the one or more renal arteries comprises:
locally delivering a volume of thiazide into the one or more renal arteries.

28. (New): The method of claim 21, wherein the local delivery of fluid agent into
the one or more renal arteries comprises:
locally delivering a volume of vasopressor into the one or more renal arteries.

29. (New): The method of claim 28, wherein the local delivery of vasopressor
into the one or more renal arteries further comprises:
locally delivering a volume of Dopamine into the one or more renal arteries.

30. (New): The method of claim 21, wherein the local delivery of fluid agent into the one or more renal arteries comprises:

locally delivering a volume of vasodilator into the one or more renal arteries.

31. (New): The method of claim 21, further comprising:
substantially enhancing renal function with the local delivery of the fluid agent into the one or more renal arteries without providing a sufficiently high systemic dose to cause substantial systemic side-effects.

32. (New): The method of claim 21, further comprising:
allowing aortic blood to flow across the plurality of renal artery ostia and into downstream circulation while locally delivering the fluid agent into the plurality of renal arteries.

33. (New): A system for affecting a renal system in a patient, comprising:
a local renal drug delivery catheter having a body with a first end portion and a second end portion comprising first and second conduits;
wherein the second end portion is adapted to be positioned at least in part at a location associated with first and second renal artery ostia along an abdominal aorta;
and
wherein the first and second conduits are adapted to be positioned within first and second renal arteries associated with the first and second ostia, respectively.

34. (New): The system of claim 33, wherein the first and second conduits are adapted to be fluidly coupled to a drug reservoir.

35. (New): The system of claim 33, further comprising:
a drug reservoir comprising a volume of fluid agent that is adapted to enhance renal function; and

wherein the first and second conduits are fluidly coupled to the drug reservoir and are adapted to deliver the volume of the fluid agent into the first and second renal arteries, respectively.

36. (New): The system of claim 35, wherein the fluid agent comprises a diuretic.

37. (New): The system of claim 36, wherein the diuretic comprises Furosemide.

38. (New): The system of claim 36, wherein the diuretic comprises Thiazide.

39. (New): The system of claim 35, wherein the fluid agent comprises a vasopressor.

40. (New): The system of claim 39, wherein the vasopressor comprises Dopamine.

41. (New): The system of claim 35, wherein the fluid agent comprises a vasodilator.

42. (New): A method for treating a renal system in a patient, comprising:

positioning a first conduit within a first renal artery;

positioning a second conduit within a second renal artery; and

locally delivering a volume of a fluid agent simultaneously to each of the first and second renal arteries via the first and second conduits, respectively;

enhancing the renal function of each of two kidneys with the volume of fluid agent being delivered; and

wherein the volume of fluid agent comprises a diuretic, a vasopressor, or a vasodilator.

43. (New): A system for treating a renal system in a patient, comprising:

a local renal drug delivery catheter having a body with a first end portion and a second end portion comprising first and second conduits;

a drug reservoir comprising a volume of fluid agent that is adapted to enhance renal function and comprising a diuretic, a vasopressor, or a vasodilator;

wherein the first end portion is adapted to be positioned at least in part within an abdominal aorta;

wherein the first and second conduits are adapted to be positioned within first and second renal arteries of the patient, respectively; and

wherein the first and second conduits are adapted to be fluidly coupled to the drug reservoir and to deliver the volume of the fluid agent into the first and second renal arteries, respectively.